

CLAIMS

1. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, wherein said first and second networks can cohabit or form a single network,

5 characterised in that said server terminal is a mobile terminal,

and in that said method includes at least the following steps:

- initialisation of a communication session by the client terminal with the mobile server terminal;

- establishment of the communication session by opening a direct
10 communication tunnel between the client terminal and the mobile server terminal;

so that said client terminal can consult information made available by the mobile server terminal and/or the client terminal can use and/or interact with all or some of the services of the mobile server terminal.

15 2. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to claim 1, characterised in that said second communication network is a wireless mobile communication network accessible through a security firewall.

20 3. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to either one of claims 1 or 2, characterised in that said communication initialisation step includes at least the following series of steps:

- 25 - step A: sending a first TCP (Transmission Control Protocol) request from the client terminal to a domain name server;

- step B: reception by the client terminal of a response to the first request, which contains at least one set of predetermined parameters for connection to a first public proxy server belonging to the first communication
30 network;

- step C: connection of the client terminal to the first public proxy server, by means of predetermined parameters, such as the IP address and/or communication port number;
 - 5 - step D: transmission by the first public proxy server of a request to initialise a communication session to a second private proxy server belonging to the second communication network in the form of an access request signal;
 - step E: sending a second TCP connection request by the second private proxy server, to a predetermined communication port of the mobile server terminal;
 - 10 - step F: transmission by the mobile server terminal of an acknowledgement of the second TCP connection request to the second private proxy server;
 - step G: sending a third TCP connection request by the second private proxy server to a predetermined communication port of the first public proxy server;
 - 15 - step H: transmission by the first public proxy server of an acknowledgement of the third TCP connection request to the second private proxy server;
 - step I: transmission by the first public proxy server of an acknowledgement of the first TCP connection request to the client terminal;
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- so as to initiate said communication session and establish the opening of said direct communication tunnel between the client terminal and the mobile server terminal, wherein said tunnel passes through said security firewall.
- 25 4. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to claim 3, characterised in that said access request signal transmitted by said client terminal is of the type belonging to the group including at least:
- 30 - an SMS message;
 - an e-mail message;

and in that it includes a list of predetermined parameters.

5 5. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to claim 4, characterised in that said list of predetermined parameters includes at least parameters of the type belonging to the group including at least:

- an IP address for identification of the first public proxy server at the origin of the access request signal;
- 10 - a communication port number for additional identification of the first public proxy server at the origin of the access request signal;
- at least one key for securing the communication initialisation request step.

15 6. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to either one of claims 4 or 5, characterised in that said list of predetermined parameters also includes at least one additional parameter corresponding to a unique call number of the second server terminal, when said access request signal is an SMS message, and/or corresponding to the type of the communication tunnel security protocol.

20 7. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to either one of claims 4 or 5, characterised in that said list of predetermined parameters also includes at least one additional parameter corresponding to an e-mail address of said second server terminal, when said access request signal is of the e-mail messagetype.

25 8. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to claim 5, characterised in that said security key is a negotiation and/or encryption key.

30 9. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to any one of claims 1 to 8,

characterised in that said communication tunnel established between said client terminal and said mobile server terminal includes http-type authentication means.

10. Method for access, by at least one client terminal connected to a first communication network, to the data and/or services of a server terminal connected to a second communication network, according to any one of claims 1 to 9,
5 characterised in that said communication tunnel established between said client terminal and said mobile server terminal includes secure data transmission means of the type using at least:

- the IPSEC protocol;
- 10 - the communication tunnel encryption protocol.

11. Device for communication and/or radiocommunication between at least one client terminal and at least one mobile server terminal, characterised in that it implements the method according to claims 1 to 10.

12. Application of the method according to claims 1 to 10 to the fields
15 belonging to the group including at least:

- wireless applications using Web services;
- on-board telemedicine applications enabling a physician to regularly access a mobile telephone serving as a mobile server terminal, so as to access and monitor the data of a patient, who is the owner of said mobile
20 telephone;
- distributed interactive applications of the type including at least:
 - distributed games;
 - on-board collaborative work applications on communicating mobile terminals.

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